

Rolling Mill Machinery and Equipment Manufacturing: 2002

Issued January 2005

EC02-311-333516 (RV)

2002 Economic Census

Manufacturing

Industry Series



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U.S. Department of Commerce
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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)					
333516, Rolling mill machinery and equipment manufacturing.....	2002..	73	79	2 735	138 435	1 583	3 476	65 040	245 058	237 956	493 676	17 754
	2001..	N	N	3 025	146 191	1 755	3 586	69 195	242 707	249 911	494 048	14 640
	2000..	N	N	3 145	158 046	1 774	3 867	76 103	323 019	259 070	579 250	21 338
	1999..	N	N	3 094	127 447	1 573	3 421	55 314	218 117	201 058	429 691	21 474
	1998..	N	N	4 290	179 144	2 334	4 711	84 534	342 157	310 221	661 702	13 766
	1997..	98	100	4 149	167 312	2 210	4 720	75 166	363 586	323 460	700 084	17 278

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333516, Rolling mill machinery and equipment manufacturing												
United States.....	3	79	33	2 735	138 435	1 583	3 476	65 040	245 058	237 956	493 676	17 754
Ohio	4	20	8	822	42 557	465	1 035	20 265	64 289	56 299	125 899	2 437
Pennsylvania.....	4	12	6	448	21 699	251	509	9 792	61 835	62 602	124 352	3 336

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
333516, Rolling mill machinery and equipment manufacturing	
Companies ¹	number.. 73
All establishments ²	number.. 79
Establishments with 1 to 19 employees	number.. 46
Establishments with 20 to 99 employees	number.. 25
Establishments with 100 employees or more	number.. 8
All employees ³	number.. 2 735
Total compensation	\$1,000.. 167 492
Annual payroll	\$1,000.. 138 435
Total fringe benefits	\$1,000.. 29 057
Production workers, average for year	number.. 1 583
Production workers on March 12	number.. 1 603
Production workers on May 12	number.. 1 577
Production workers on August 12	number.. 1 559
Production workers on November 12	number.. 1 582
Production worker hours	1,000.. 3 476
Production worker wages	\$1,000.. 65 040
Total cost of materials	\$1,000.. 237 956
Materials, parts, containers, packaging, etc., used	\$1,000.. 212 395
Resales	\$1,000.. 2 956
Purchased fuels	\$1,000.. 2 763
Purchased electricity	\$1,000.. 5 352
Contract work	\$1,000.. 14 490
Quantity of electricity purchased for heat and power	1,000 kWh.. 76 965
Quantity of electricity generated less sold for heat and power	1,000 kWh.. -
Total value of shipments	\$1,000.. 493 676
Primary products value of shipments	\$1,000.. 467 316
Secondary products value of shipments	\$1,000.. 17 357
Total miscellaneous receipts	\$1,000.. 9 003
Value of resales	\$1,000.. 4 084
Contract receipts	\$1,000.. 922
Other miscellaneous receipts	\$1,000.. 3 997
Primary products specialization ratio	percent.. 96
Value of primary products shipments made in all industries	\$1,000.. 489 323
Value of primary products shipments made in this industry	\$1,000.. 467 316
Value of primary products shipments made in other industries	\$1,000.. 22 007
Coverage ratio	percent.. 96
Value added	\$1,000.. 245 058
Total inventories, beginning of year	\$1,000.. 168 622
Finished goods inventories	\$1,000.. 23 753
Work-in-process inventories	\$1,000.. 83 162
Materials and supplies inventories	\$1,000.. 61 707
Total inventories, end of year	\$1,000.. 157 793
Finished goods inventories	\$1,000.. 26 634
Work-in-process inventories	\$1,000.. 69 619
Materials and supplies inventories	\$1,000.. 61 540
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '283 928
Total capital expenditures (new and used)	\$1,000.. '17 754
Buildings and other structures (new and used)	\$1,000.. '1 601
Machinery and equipment (new and used)	\$1,000.. '16 153
Automobiles, trucks, etc., for highway use	\$1,000.. '404
Computers and peripheral data processing equipment	\$1,000.. '898
All other expenditures for machinery and equipment	\$1,000.. '14 851
Total retirements	\$1,000.. '10 905
Gross value of depreciable assets at end of year	\$1,000.. '290 777
Depreciation charges during year	\$1,000.. '18 299
Total rental payments	\$1,000.. 8 572
Buildings and other structures	\$1,000.. 5 574
Machinery and equipment	\$1,000.. 2 998
Total other expenses ⁴	\$1,000.. 53 462
Response coverage ratio ⁵	percent.. 67
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 2 530
Communications services ⁴	\$1,000.. 1 254
Legal services ⁴	\$1,000.. 505
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 753
Advertising and promotional services ⁴	\$1,000.. 582
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 1 164
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 986
Management consulting and administrative services ⁴	\$1,000.. 149
Taxes and license fees ⁴	\$1,000.. 731
All other expenses ⁴	\$1,000.. 44 808

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333516, Rolling mill machinery and equipment manufacturing											
All establishments	3	79	2 735	138 435	1 583	3 476	65 040	245 058	237 956	493 676	'17 754
Establishments with—											
1 to 4 employees	9	21	51	2 354	28	52	1 102	2 555	4 291	8 830	'156
5 to 9 employees	7	14	86	4 737	50	103	2 101	8 513	8 003	17 650	'896
10 to 19 employees	5	11	139	6 163	74	153	2 824	10 974	9 633	22 638	'463
20 to 49 employees	2	20	669	28 347	441	888	15 632	46 454	47 090	98 184	'2 902
50 to 99 employees	6	5	326	15 908	186	413	7 123	46 536	44 885	87 900	'5 036
100 to 249 employees	2	7	g	D	D	D	D	D	D	D	D
250 to 499 employees	—	1	e	D	D	D	D	D	D	D	D
500 to 999 employees	—	—	—	—	—	—	—	—	—	—	—
1,000 to 2,499 employees	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	27	236	12 792	142	296	6 182	21 497	22 253	43 743	'846

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
333516	Rolling mill machinery and equipment manufacturing	79	2 735	138 435	1 583	3 476	65 040	245 058	237 956	493 676	'17 754
3335161	Hot rolling mill machinery (including combination hot and cold) (except tube rolling)	7	344	18 296	174	344	7 205	44 239	51 256	97 869	D
3335163	Cold rolling mill machinery	14	529	24 535	319	705	12 028	42 130	38 840	80 790	D
3335165	Other rolling mill machinery (including tube mill machinery) and parts for all rolling mill machinery ..	33	1 767	91 017	1 037	2 317	43 619	154 186	141 219	301 507	'12 814

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
333516	Rolling mill machinery and equipment manufacturing	2002.. N	X	X	489 323
	1997.. N		X	X	666 294
3335161	Hot rolling mill machinery (including combination hot and cold) (except tube rolling)	2002.. N	X	X	133 274
	1997.. N		X	X	181 403
33351611	Hot rolling mill machinery (including combination hot and cold) (except tube rolling)	2002.. N	X	X	133 274
	1997.. N		X	X	181 403
3335161100	Hot rolling mill machinery (including combination hot and cold) (except tube rolling)	2002.. 11	X	X	133 274
	1997.. N		X	X	N
3335163	Cold rolling mill machinery	2002.. N	X	X	71 715
	1997.. N		X	X	95 007
33351631	Cold rolling mill machinery	2002.. N	X	X	71 715
	1997.. N		X	X	95 007
3335163101	Tandem cold rolling mill machinery	2002.. 7	X	X	17 729
	1997.. 6		X	X	20 846
3335163106	Single stand cold rolling mill machinery	2002.. 5	X	X	36 927
	1997.. 5		X	X	60 056
3335163191	Other cold rolling mill machinery and equipment	2002.. 10	X	X	17 059
	1997.. 7		X	X	14 105
3335163Y	Cold rolling mill machinery, nsk	2002.. N	X	X	—
	1997.. N		X	X	—
3335163YVV	Cold rolling mill machinery, nsk	2002.. N	X	X	—
	1997.. N		X	X	—
3335165	Other rolling mill machinery (including tube mill machinery) and parts for all rolling mill machinery	2002.. N	X	X	271 603
	1997.. N		X	X	348 676
33351651	Other rolling mill machinery (including tube mill machinery) and parts for all rolling mill machinery	2002.. N	X	X	271 192
	1997.. N		X	X	347 473
3335165101	Tube rolling mill machinery	2002.. 12	X	X	85 454
	1997.. 9		X	X	76 036
3335165106	Processing lines (including pickling and cleaning, tinning, galvanizing, etc.), scarfing units, and press feed lines	2002.. 11	X	X	31 080
	1997.. 6		X	X	70 311
3335165111	Other rolling mill machinery and equipment, except parts	2002.. 9	X	X	12 645
	1997.. 12		X	X	46 134
3335165116	Machined rolls for rolling mills	2002.. 12	X	X	98 195
	1997.. 19		X	X	109 911
3335165121	Parts, except rolls, for rolling mill machinery (sold separately)	2002.. 17	X	X	43 818
	1997.. 15		X	X	45 081
3335165Y	Other rolling mill machinery (including tube mill machinery) and parts for all rolling mill machinery, nsk	2002.. N	X	X	411
	1997.. N		X	X	1 203
3335165YVV	Other rolling mill machinery (including tube mill machinery) and parts for all rolling mill machinery, nsk	2002.. N	X	X	411
	1997.. N		X	X	1 203
333516W	Rolling mill machinery and equipment manufacturing, nsk, total	2002.. N	X	X	12 731
	1997.. N		X	X	41 208
333516WY	Rolling mill machinery and equipment manufacturing, nsk, total	2002.. N	X	X	12 731
	1997.. N		X	X	41 208
333516WYWW	Rolling mill machinery and equipment manufacturing, nsk, for nonadministrative-record establishments	2002.. N	X	X	1 105
	1997.. N		X	X	17 858
333516WYWY	Rolling mill machinery and equipment manufacturing, nsk, for administrative-record establishments	2002.. N	X	X	11 626
	1997.. N		X	X	23 350

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3335161	Hot rolling mill machinery (including combination hot and cold) (except tube rolling)	
	United States..... 2002..	133 274
	..... 1997..	181 403
3335163	Cold rolling mill machinery	
	United States..... 2002..	71 715
	..... 1997..	95 007
	Ohio 2002..	18 356
	..... 1997..	18 852
3335165	Other rolling mill machinery (including tube mill machinery) and parts for all rolling mill machinery	
	United States..... 2002..	271 603
	..... 1997..	348 676
	Illinois 2002..	18 315
	..... 1997..	16 186
	Ohio 2002..	68 499
	..... 1997..	151 135
	Pennsylvania..... 2002..	59 013
	..... 1997..	N

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
333516	Rolling mill machinery and equipment manufacturing		
00900001	Total materials .....2002..	X	212 395
	.....1997..	X	298 183
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic) .....2002..	X	4 281
	.....1997..	X	9 322
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic) .....2002..	X	D
	.....1997..	X	7 715
33399901	Fluid power filters (hydraulic and pneumatic) .....2002..	X	724
	.....1997..	X	1 735
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic) .....2002..	X	2 089
	.....1997..	X	3 733
33291207	Fluid power valves (hydraulic and pneumatic) .....2002..	X	2 430
	.....1997..	X	3 471
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	440
	.....1997..	X	4 345
33200051	Other fabricated metal products (excluding fluid power products and forgings) .....2002..	X	18 030
	.....1997..	X	N
33210000	Forgings .....2002..	X	D
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	11 713
	.....1997..	X	12 706
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished) .....2002..	X	D
	.....1997..	X	1 349
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	15 319
	.....1997..	X	23 947
33120016	Steel sheet and strip (including tinplate) .....2002..	X	1 347
	.....1997..	X	N
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products) .....2002..	X	2 121
	.....1997..	X	3 370
33120092	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	1 788
	.....1997..	X	N
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	40
	.....1997..	X	104
33531209	Fractional horsepower electric timing motors, synchronous and subsynchronous (less than 1 hp) .....2002..	X	125
	.....1997..	X	143
33531217	Other fractional horsepower electric motors (less than 1 hp) .....2002..	X	D
	.....1997..	X	D
33531221	Integral horsepower electric motors and generators (1 hp or more) .....2002..	X	D
	.....1997..	X	12 328
001900B1	Electrical transmission, distribution, and control equipment .....2002..	X	D
	.....1997..	X	11 868
33500007	Electrical industrial capacitors, resistors, rheostats, and coil windings .....2002..	X	9
	.....1997..	X	3 399
33451501	Electrical instrument mechanisms and meter movements (including instrument relays) .....2002..	X	36
	.....1997..	X	N
33531409	Numerical controls for metalworking machinery (excluding programmable) .....2002..	X	31
	.....1997..	X	D
33531411	Programmable controllers for metalworking machinery .....2002..	X	3 281
	.....1997..	X	5 129
33299105	Ball bearings (mounted or unmounted) .....2002..	X	D
	.....1997..	X	9 582
33299103	Roller bearings (mounted or unmounted) .....2002..	X	D
	.....1997..	X	5 694
33361200	Mechanical speed changers, gears, and industrial high-speed drives .....2002..	X	11 962
	.....1997..	X	16 252
32192001	Wood boxes, pallets, skids, and containers .....2002..	X	759
	.....1997..	X	1 076
33351503	Cutting tools for machine tools .....2002..	X	2 104
	.....1997..	X	2 273
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components) .....2002..	X	D
	.....1997..	X	N
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	D
	.....1997..	X	N
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes) .....2002..	X	D
	.....1997..	X	N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	50
	.....1997..	X	N
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting) .....2002..	X	D
	.....1997..	X	N
33422001	Electronic communication equipment .....2002..	X	D
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	54 421
	.....1997..	X	132 902
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	14 626
	.....1997..	X	23 481

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.